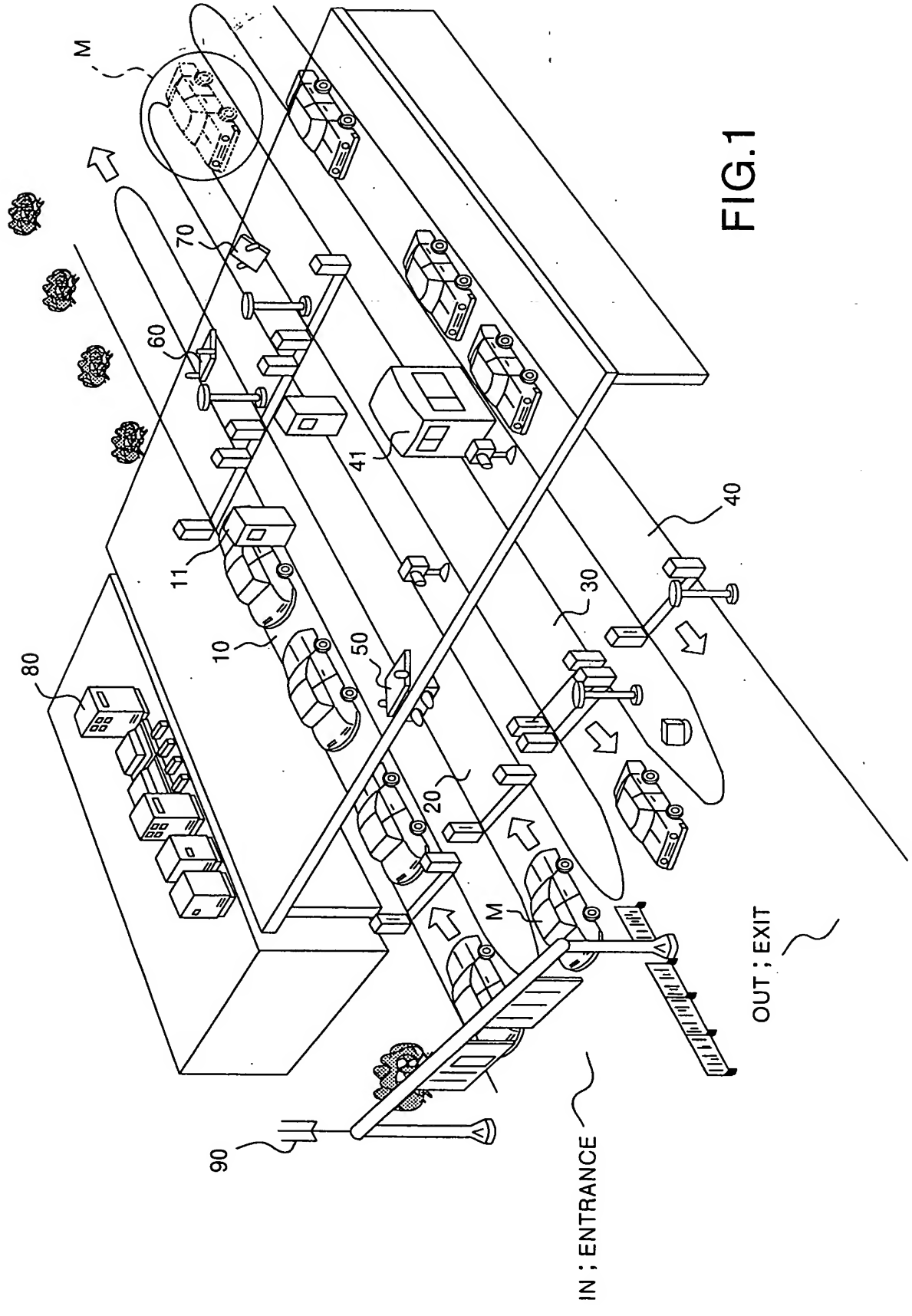

FIG.1

FIG.2

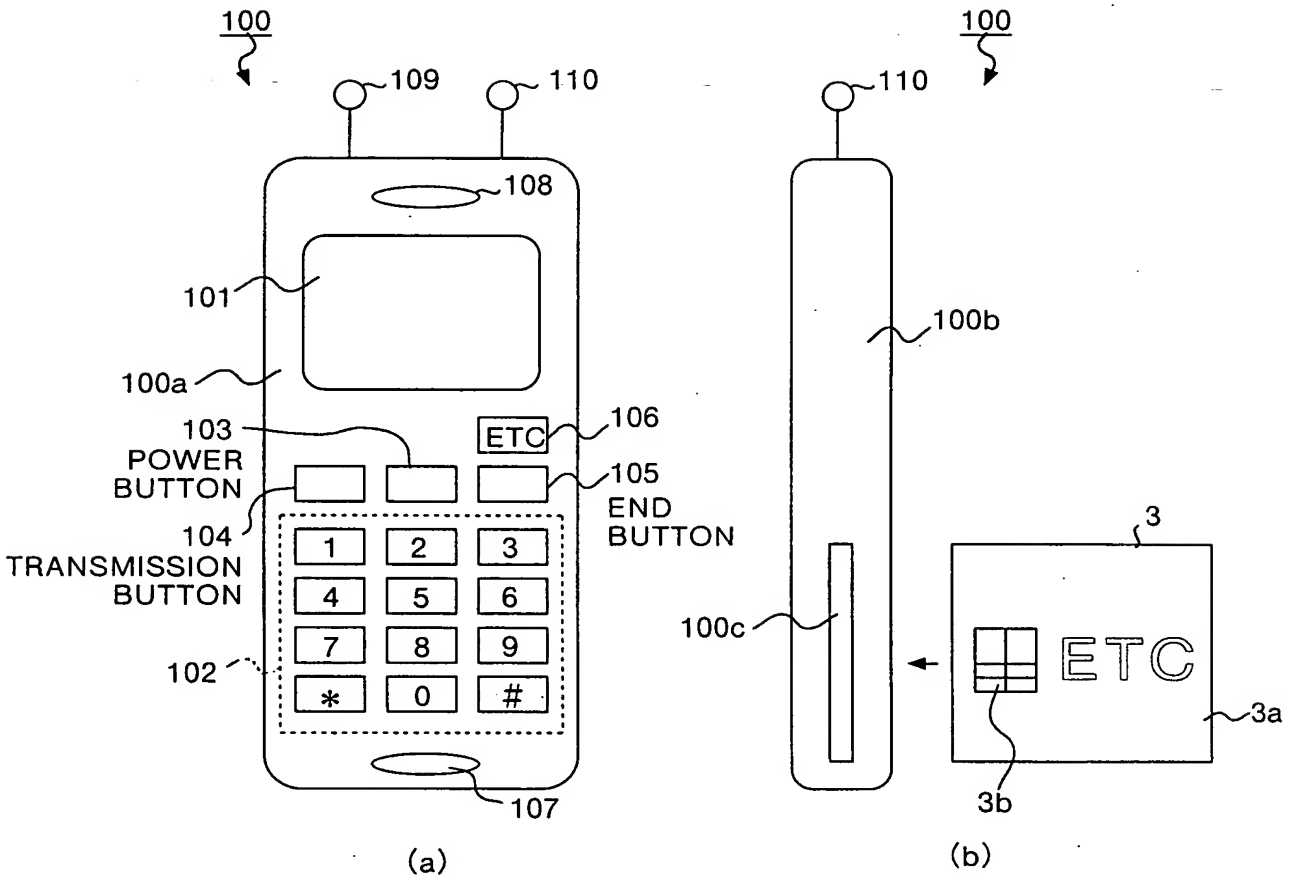
100
109
110
108
101
100a
103
POWER
BUTTON
ETC
106
105
END
BUTTON
104
TRANSMISSION
BUTTON
1
2
3
4
5
6
7
8
9
*
0
#
102
107
(a)
100
110
100b
100c
3
ETC
3a
3b
(b)

FIG.3

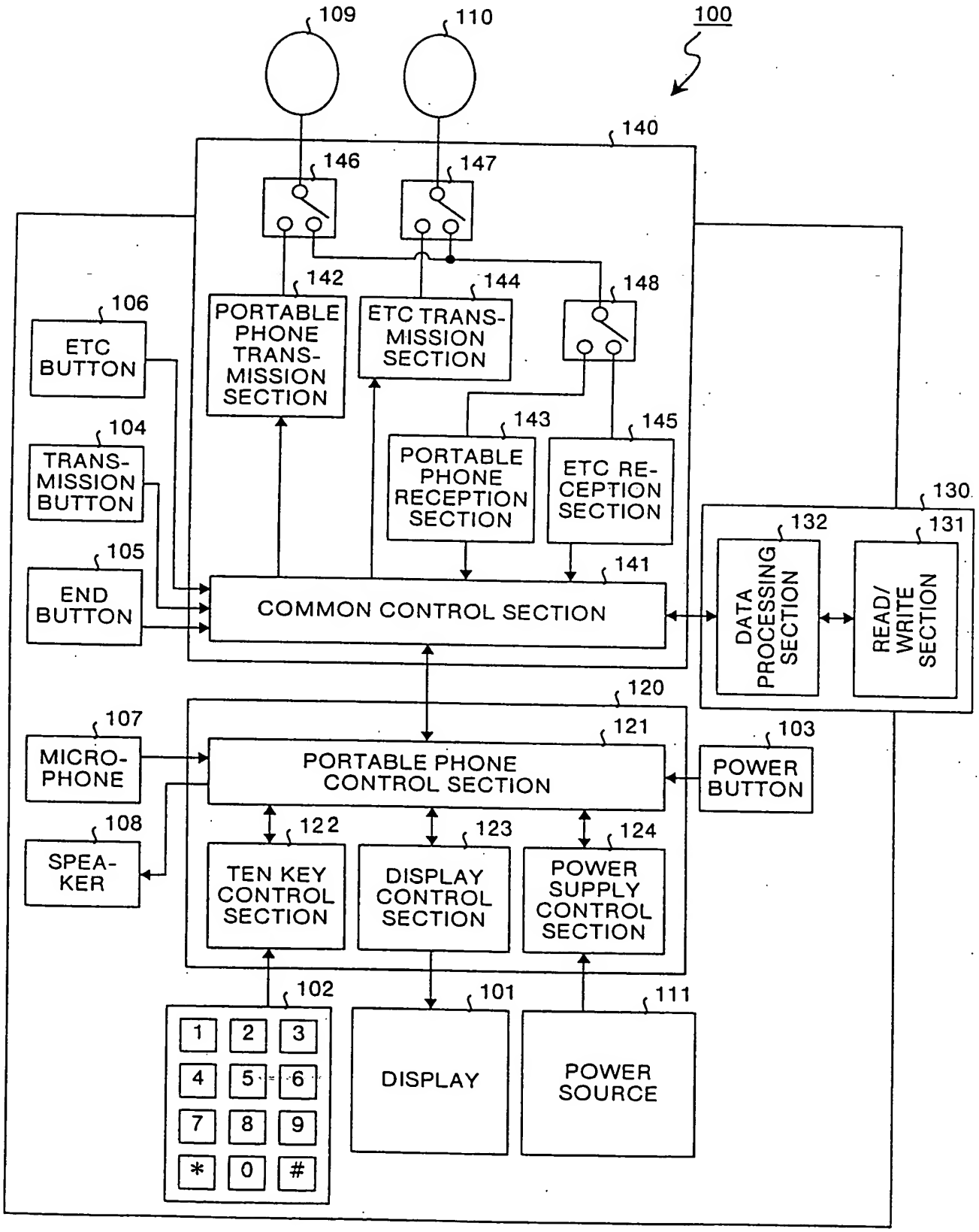
109
110
100
140
146
147
142
144
148
106
ETC BUTTON
PORTABLE PHONE TRANS-MISSION SECTION
ETC TRANS-MISSION SECTION
104
TRANS-MISSION BUTTON
143
145
PORTABLE PHONE RECEPTION SECTION
ETC RE-CEPTION SECTION
130
132
131
105
END BUTTON
141
COMMON CONTROL SECTION
DATA PROCESSING SECTION
READ/ WRITE SECTION
120
107
MICRO-PHONE
121
103
PORTABLE PHONE CONTROL SECTION
POWER BUTTON
108
SPEA-KER
122
123
124
TEN KEY CONTROL SECTION
DISPLAY CONTROL SECTION
POWER SUPPLY CONTROL SECTION
102
101
111
1 2 3
4 5 6
7 8 9
* 0 #
DISPLAY
POWER SOURCE

FIG.4

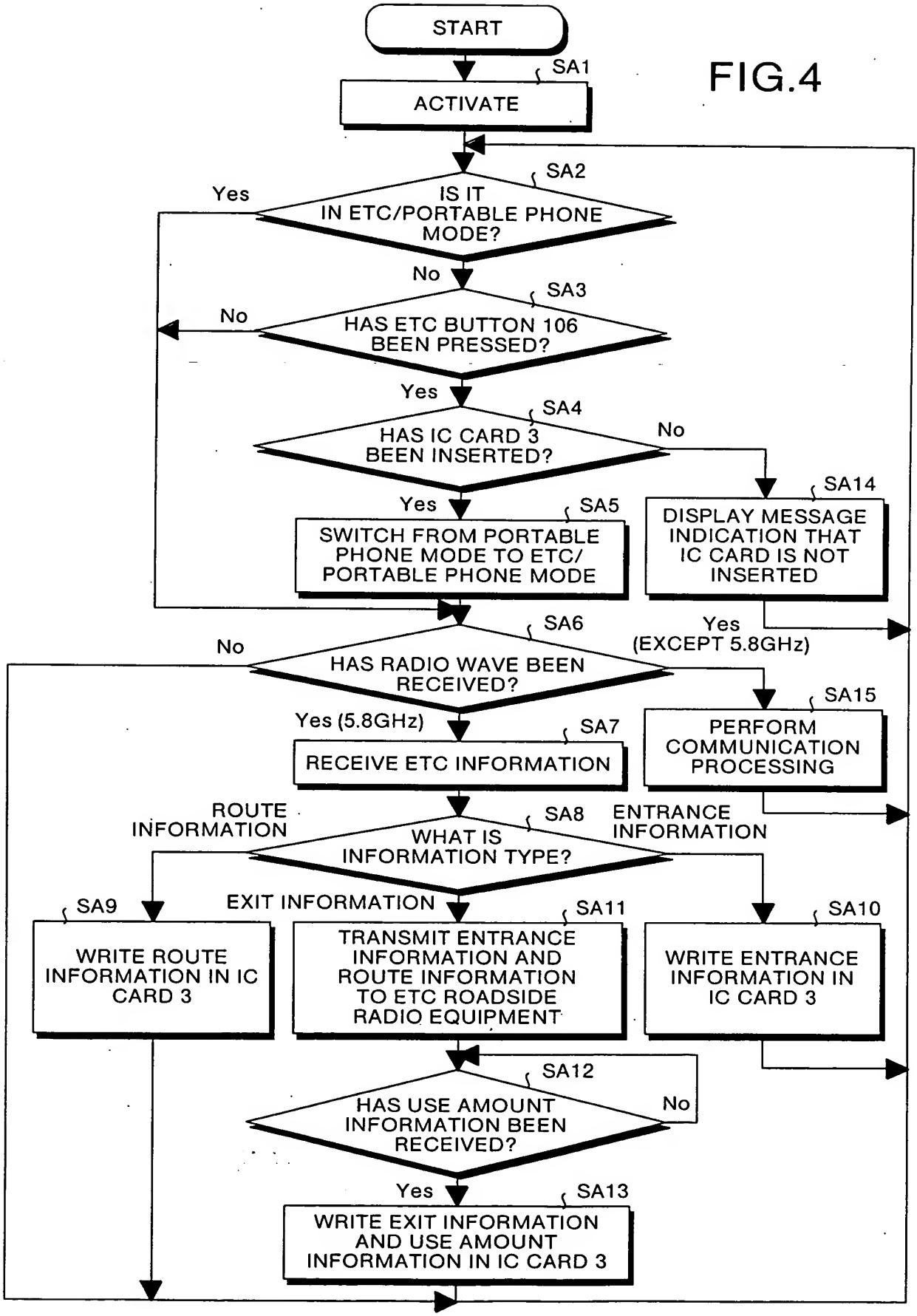

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FIG.5

STATE	INSERTION STATE OF IC CARD 3	PRESSED STATE OF ETC BUTTON 106	POSITION OF OWN VEHICLE	MODE OF PORTABLE TERMINAL 100
1	UNINSERTED IC CARD READER/WRITER 130 IC CARD 3	UNPRESSED 106	OUTSIDE ETC AREA M ETC AREA	PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
2	INSERTED IC CARD READER/WRITER 130 IC CARD 3	UNPRESSED 106	OUTSIDE ETC AREA M ETC AREA	PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
3	UNINSERTED IC CARD READER/WRITER 130 IC CARD 3	PRESSED 106	OUTSIDE ETC AREA M ETC AREA	PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
4	UNINSERTED IC CARD READER/WRITER 130 IC CARD 3	UNPRESSED 106	WITHIN ETC AREA M ETC AREA	PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
5	INSERTED IC CARD READER/WRITER 130 IC CARD 3	PRESSED 106	OUTSIDE ETC AREA M ETC AREA	ETC/PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
6	UNINSERTED IC CARD READER/WRITER 130 IC CARD 3	PRESSED 106	WITHIN ETC AREA M ETC AREA	PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
7	INSERTED IC CARD READER/WRITER 130 IC CARD 3	UNPRESSED 106	WITHIN ETC AREA M ETC AREA	PORTABLE PHONE MODE: DOES NOT FUNCTION AS ETC ON-BOARD MACHINE
8	INSERTED IC CARD READER/WRITER 130 IC CARD 3	PRESSED 106	WITHIN ETC AREA M ETC AREA	ETC/PORTABLE PHONE MODE: FUNCTIONS AS ETC ON-BOARD MACHINE

FIG.6

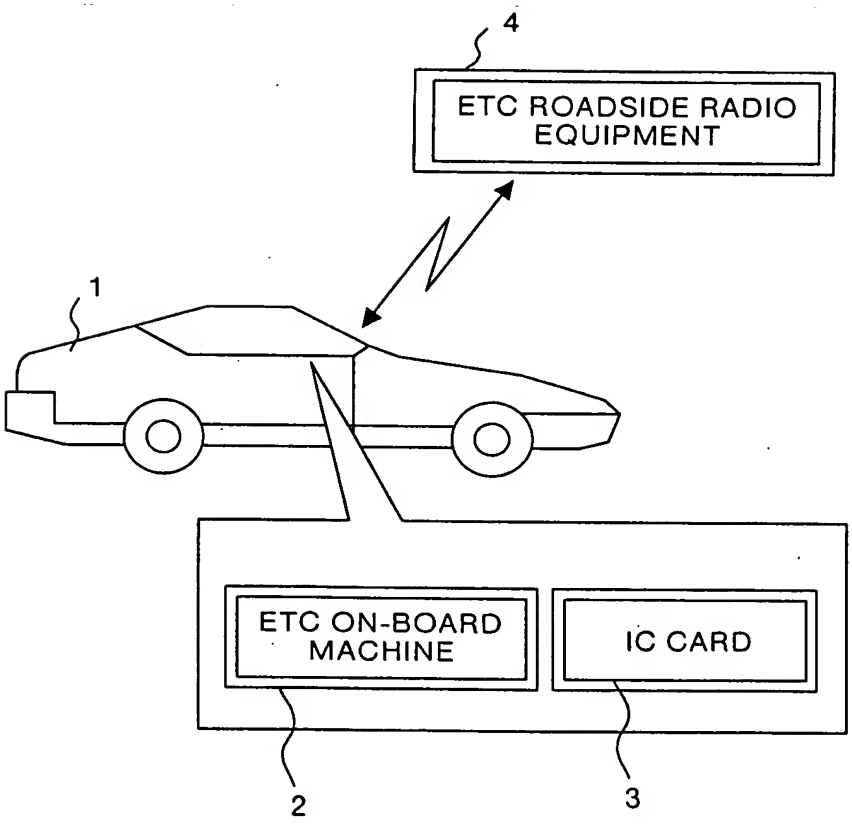

4
ETC ROADSIDE RADIO EQUIPMENT
1
ETC ON-BOARD MACHINE
IC CARD
2
3

FIG.7

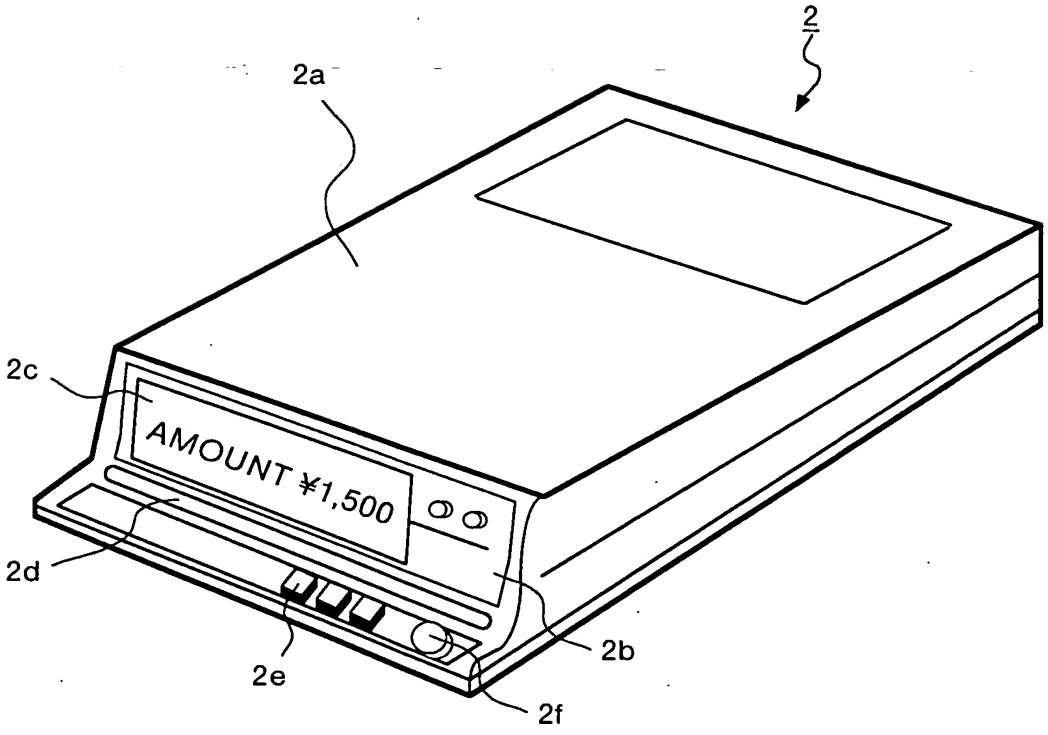
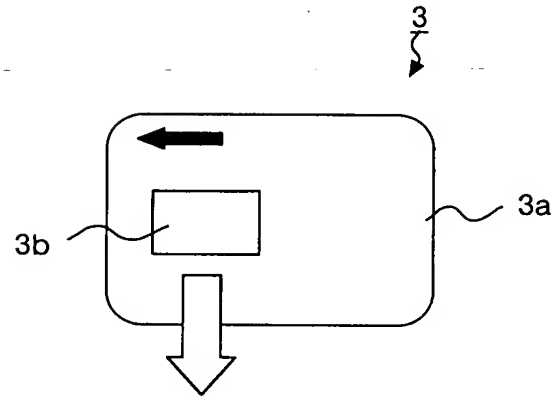


FIG.8



J

1999/08/10 DEPOSIT ¥10,000
1999/08/10 BALANCE ¥12,000

1999/08/11 ENTRANCE ABC INTERCHANGE
1999/08/11 EXIT DEF INTERCHANGE
1999/08/11 AMOUNT OF USE ¥1,500
1999/08/11 BALANCE ¥10,500

1999/08/13 ENTRANCE GHI INTERCHANGE
1999/08/13 PASS JKL JUNCTION
1999/08/13 EXIT MNO INTERCHANGE
1999/08/13 AMOUNT OF USE ¥3,000
1999/08/13 BALANCE ¥7,500

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